

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1136	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 12:40
S4	292	83/178,183,184.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 15:11
S5	4	S1 and paper same pipe	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 12:40
S6	4	("1934660").URPN.	USPAT	OR	ON	2005/07/05 12:47
S7	14	("3993231" "4084466" "4227431" "4291453" "4302958" "4649780" "4748881" "4779496" "4794834" "4930379" "5014579" "5383380" "5457877" "6101910").PN. OR ("6832536"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/05 13:09
S8	30	("0983387" "1685127" "1777316" "1825925" "1864903" "2457310" "2521003" "2521385" "3521004" "3522748" "3861254" "4748881").PN. OR ("5383380").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/05 13:10
S9	16	("1685127" "1952209" "2365760" "3161097" "3861253" "3933063").PN. OR ("4748881"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/05 13:14
S10	2	("4292867").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:20
S11	4	("4111084").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:21
S12	2	("3911768").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:21

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S13	18	("0898732" "0969858" "2521003" "3143014" "3344696").PN. OR ("3911768").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/05 14:24
S14	8	("1075910").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:25
S15	8	("1110681").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:28
S16	0	("29501197").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:28
S17	0	("29501197").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:36
S18	2	("4292867").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 14:36
S19	2	("20040074350").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 19:03
S20	1136	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:03
S21	59	S20 and mandrel same groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/11 10:50
S22	3	S20 and mandrel same (groove with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:17

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S23	14	("0460317" "0811593" "1042998" "1242448" "1984730" "4487378" "5271137" "5453070" "5755146").PN. OR ("6718853").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/05 19:11
S24	292	83/178,183,184.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:17
S25	1	S24 and mandrel same (groove with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:18
S26	18	S24 and mandrel same groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:23
S27	913	mandrel same (groove with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:23
S28	189	pipe and mandrel same (groove with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 19:25
S29	26	pipe and blade and mandrel same (groove with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/06 07:50
S30	0	("bladesame(mandrelandgroove)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/06 08:24
S31	1232	blade same (mandrel and groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/06 08:24
S32	45	blade same (mandrel near groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/06 08:52

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S33	4	("3709969").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/06 09:57
S34	1511	"408"/\$.ccls. and (chamfer\$5 or debur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/07 15:12
S35	369	"408"/\$.ccls. and debur\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/07 16:14
S36	61	S35 and pipe	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/07 16:13
S37	178	"83"/\$.ccls. and debur\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/07 16:16
S38	15	S37 and pipe	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/07 16:17
S39	2	("3754832").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/07 16:17
S40	15	("0469354" "0651337" "1228951" "3550482").PN. OR ("3754832"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/07 16:19
S41	31	("1531738" "1662936" "1750394" "2204516" "2556415" "3118476" "3137208" "3672017" "3754832" "3817649" "3872748" "4205493" "4229129" "4743146" "4798503" "4955165" "5004383" "5007778" "5401125" "5810522" "5853272" "5961382" "6092293" "6146067").PN. OR ("6835029"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/07 16:20

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S42	7	("3200540" "3290834" "4063471").PN. OR ("5961382").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/07 16:20
S43	11	("3137208" "3365773" "3802793").PN. OR ("5004383").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/07 17:06
S44	1740	insert and (AB with type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/08 14:38
S45	192	insert same (AB with type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/08 14:39
S46	1136	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/10 19:00
S47	259	S46 and blades	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/10 19:00
S48	48	S46 and blades same width	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/10 19:00
S49	68	S46 and blades same thick\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/10 19:12
S50	0	("29501197").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/10 19:12
S51	0	("29501197").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/10 19:13

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S52	0	("29501197.1").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/10 19:13
S53	1141	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/11 10:50
S54	5	S53 and mandrel near groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/11 10:54
S55	0	S53 and mandrel near peieces	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/11 10:54
S56	44	S53 and mandrel same pieces	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/11 10:54
S57	101	S53 and mandrel same (pieces or sections)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/11 10:54
S58	2	("6925915").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/14 15:44
S59	2	("6694213").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/14 15:05
S60	4	("4849668" "5170103" "5315203" "5558477").PN. OR ("6925915").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/14 15:06
S61	8	("4031368" "4409659" "4724524" "4741230" "4849668" "5170103" "5485053" "5913955").PN. OR ("6694213").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/14 15:07

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S62	2	("5687462").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/14 15:45
S63	2	("6146060").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/14 15:45
S64	12524	cut\$4 and core and mandrel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 15:56
S65	1144	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 15:56
S66	49	S64 and S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 18:56
S67	60941	core with cut\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 16:56
S68	1832982	S67 and blade or disc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 16:56
S69	5263	(core with cut\$4) same blade	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 16:56
S70	206	(core with cut\$4) same (blade and mandrel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 16:57
S71	1144	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 16:57

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S72	14	S70 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 16:58
S73	2	("5170684").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/02 16:58
S74	29	("3158074" "3304819" "3323399" "3772945" "3776070" "3817137" "3861252" "3911768" "3955455" "4072073" "4138911" "4152958" "4172399" "4205573" "4292867" "4381083" "4476453" "4517867" "4591405" "4649780" "4744277" "4930379").PN. OR ("5170684").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/02 17:16
S75	17	madrel same groove	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/02 17:28
S76	7	madrel same recess	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/02 17:33
S77	2	("20040074350").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/02 17:35
S78	46	madrel and (recess or grove)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/02 17:35
S79	46	madrel and (recess or grove)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/02 17:36
S80	46	madrel and (recess or grove)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/02 17:36
S81	2	("3656377").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/02 18:56

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S82	23997	(NC or numerical) adj control\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:02
S83	12804212	advantag\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 18:57
S84	98	S82 near S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 18:57
S85	1144	82/47,48,85,91,101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 18:57
S86	0	S84 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 18:57
S87	13	S82 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 18:57
S88	25049	(CNC or NC or numerical) adj control\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:04
S89	15	S88 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:04
S90	0	S84 not S88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:04
S91	98	S84 not S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:04

EAST Search History

S92	270406	rotat\$4 near (speed or velocity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:05
S93	6	S88 near S92	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/02 19:05